

0590
0920

#13

#13



ENTERED

OIPE

RAW SEQUENCE LISTING

DATE: 09/26/2002 P.6

PATENT APPLICATION: US/09/759,130B

TIME: 16:34:01

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

4 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
5 McCarthy, Sean A
6 Fraser, Christopher C
7 Sharp, John D
8 Barnes, Thomas S
9 Kirst, Susan J
10 Mackay, Charles R
11 Myers, Paul S
12 Leiby, Kevin R
13 Wrighton, Nicolas
14 Goodearl, Andrew
15 Holtzman, Douglas A
17 <120> TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
18 PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
19 USES.
21 <130> FILE REFERENCE: MPI00-5350MNIM
23 <140> CURRENT APPLICATION NUMBER: US 09/759,130B
C--> 24 <141> CURRENT FILING DATE: 2002-09-16
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27 <151> PRIOR FILING DATE: 2000-01-07
29 <150> PRIOR APPLICATION NUMBER: US 09/559,497
30 <151> PRIOR FILING DATE: 2000-04-27
32 <150> PRIOR APPLICATION NUMBER: US 09/578,063
33 <151> PRIOR FILING DATE: 2000-05-24
35 <150> PRIOR APPLICATION NUMBER: US 09/333,159
36 <151> PRIOR FILING DATE: 1999-06-14
38 <150> PRIOR APPLICATION NUMBER: US 09/596,194
39 <151> PRIOR FILING DATE: 2000-07-14
41 <150> PRIOR APPLICATION NUMBER: US 09/342,364
42 <151> PRIOR FILING DATE: 1999-06-29
44 <150> PRIOR APPLICATION NUMBER: US 09/608,452
45 <151> PRIOR FILING DATE: 2000-06-30
47 <150> PRIOR APPLICATION NUMBER: US 09/393,996
48 <151> PRIOR FILING DATE: 1999-09-10
50 <150> PRIOR APPLICATION NUMBER: US 09/602,871
51 <151> PRIOR FILING DATE: 2000-06-23
53 <150> PRIOR APPLICATION NUMBER: US 09/420,707
54 <151> PRIOR FILING DATE: 1999-10-19
56 <160> NUMBER OF SEQ ID NOS: 460
58 <170> SOFTWARE: FastSEQ for Windows Version 4.0
60 <210> SEQ ID NO: 1
61 <211> LENGTH: 5121
62 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 09/26/2002

PATENT APPLICATION: US/09/759,130B

TIME: 16:34:01

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

63 <213> ORGANISM: Homo sapiens

65 <400> SEQUENCE: 1

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68 tgacactctc ctgcctggaa agaggacgaa cgaccaaaca aacgcaagga ctggactcca 180
69 tgccgaaggt atctggaagt cgtgacacgg tgtgtataaa acaaaagttt gcgagctgtt 240
70 aattgctgtg ctgtgttatt aagagacgct ttcaagtttc aagtaccaa tgtagcttta 300
71 cgttgccaaa ggaagttgag gcaattgctt tgctgtttta acttgctctg tgagggaat 360
72 ctcataaact gaccaatgca ccaaatgaat gctaaaatgc actttagggt tgtttttgca 420
73 cttctgatag tatctttcaa ccacgatgta ctgggcaaga atttgaaata caggatttat 480
74 gaggaacaga ggggtggatc agtaattgca agactatcag aggatgtggc tgatgtttta 540
75 ttgaagcttc ctaatccttc tactgttcga tttcgagcca tgcagagggg aaattctcct 600
76 ctactttagt taaacgagga taatggggaa atcagcatag gggctacaat tgaccgtgaa 660
77 caactgtgcc agaaaaactt gaactgttcc atagagtttg atgtgatcac tctaccaca 720
78 gagcatctgc agcttttcca tattgaagtt gaagtgtctg atattaatga caattctccc 780
79 cagttttcaa gatctctcat acctattgag atatctgaga gtgcagcagt tgggactcgc 840
80 attcccctgg acagtgcatt tgatccagat gttggggaaa attccctcca cacatactcg 900
81 ctctctgcca atgatttttt taatatcgag gttcggacca ggactgatgg agccaagtat 960
82 gcagaactca tagtggtcag agagttagat cgggagctga agtcaagcta cgagcttcag 1020
83 ctactgcct cagacatggg agtacctcag aggtctggct catccatact aaaaataaagc 1080
84 atttcagact ccaatgacaa cagccctgct tttgagcagc aatcttatat aatacaactc 1140
85 ttgaaaaact ccccggttgg cactttgctc ttagatctga atgccacgga tccagatgag 1200
86 ggcgctaatt ggaaaaattg atattccttc agcagtcatt tgtctcccaa aattatggag 1260
87 acttttataa ttgattctga aagaggacat ttgactcttt tcaagcaagt ggattatgaa 1320
88 atcaccaaat cctatgagat tgatgttcag gctcaagatt tgggtccaaa ttcaatcca 1380
89 gccattgca aaattataat taaggttgtg gatgttaatg acaataaacc tgaaattaac 1440
90 atcaacctca tgtcccctgg aaaagaagaa atatcttata tttttgaagg ggatcctatt 1500
91 gatacatatt ttgctttggg cagagttcag gacaaggatt ctgggctgaa tggagaaaata 1560
92 gtttgtaagc ttcattggca tggtcacttt aaacttcaga agacatatga aaacaattat 1620
93 ttaactctaa ctaatgccac actggataga gaaaagagat ctgagtatat tttgactgta 1680
94 atcgctgagg acagggggac aoccatctc tctacagtga aacattttac agttcaaatc 1740
95 aatgatatac atgacaatcc accccacttc cagagaagcc gatatgaatt tgtaatttca 1800
96 gaaaataact caccaggggc atatatcacc actgttacag ccacagatcc tgatcttgga 1860
97 gaaaatgggc aagtgcata caccatcttg gagagtttta ttctaggaag ttccataact 1920
98 acatatgtaa ccattgaccc atctaattga gccatctatg cctcagaat ctttgatcat 1980
99 gaagaagtga gtcagatcac ttttgtggtg gaagcaagag atggaggaag cccgaagcaa 2040
100 ctggtaaagc ataccacagt tgtgctcacc atcattgacg aaaatgacaa cgttcctgtg 2100
101 gttatagggc ctgcattgcg taataatacg gcagaaatca ccattcccaa aggggctgaa 2160
102 agtggctttc atgtcacaag aataagggca attgacagag actctgggtg gaatgctgaa 2220
103 ctcagctgcg ccatagtagc aggtaatgag gagaatatct tcataattga tccacgatca 2280
104 tgtgacatcc ataccaacgt tagcatggat tctgttccct acacagaatg ggagctgtca 2340
105 gttatcattc aggacaaagg caatcctcag ctacatacca aagtccttct gaagtgcatt 2400
106 atctttgaat atgcagagtc ggtgacaagt acagcaatga cttcagtaag ccaggcatcc 2460
107 ttggatgtct ccatgataat aattatttcc ttaggagcaa tttgtgcagt gttgctggtt 2520
108 attatgggtc tattttgcaac taggtgtaac cgcgagaaga aagacactag atcctataac 2580
109 tgcaggggtg ccgaatcaac ttaccagcac cacccaaaaa ggccatcccg gcagattcac 2640
110 aaaggggaca tcacattggg gcctaccata aatggcactc tgcccatcag atctcatcac 2700
111 agatcgtctc catcttcac tcctacctta gaaagagggc agatggggcag ccggcagagt 2760
112 cacaacagtc accagtcact caacagtttg gtgacaatct catcaaacca cgtgccagag 2820

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RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

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114 tcaatgcttc accaggggca atatcagcca agaccaagtt ttcgaggaaa caaatattcc 2940
115 aggagctaca gatatgccct tcaagacatg gacaaaattta gcttgaaaaga cagtggccgt 3000
116 ggtgacagtg aggaggaga cagtgattat gatttggggc gagattctcc aatagatagg 3060
117 ctgctgggtg aaggattcag cgacctgttt ctacacagatg gaagaattcc agcagctatg 3120
118 agactctgca cggaggagtg cagggtcctg ggacactctg accagtgtg gatgccacca 3180
119 ctgccctcac cgtcttctga ttataggagt aacatgttca ttccagggga agaattccca 3240
120 acgcaacccc agcagcagca tccacatcag agtcttgagg atgacgctca gcctgcagat 3300
121 tccggtgaaa agaagaagag tttttccacc ttggaaaagg actcccaaaa cgatgaggac 3360
122 actggggata ccagcacatc atctctgtct tcggaaatga gcagtgtgtt ccagcgtctc 3420
123 ttaccgcctt ccctggacac ctattctgaa tgcagtgtgagg tggatcggtc caactccctg 3480
124 gagcgcagga agggaccctt gccagccaaa actgtgggtt acccacaggg ggtagcggca 3540
125 tgggcagcca gtacgcattt tcaaaaatccc accaccaact gtgggcccgc acttggaact 3600
126 cactccagtg tgcagccttc ttcaaaatgg ctgccagcca tggaggagat ccctgaaaat 3660
127 tatgaggaag atgattttga caatgtgtct aaccacctca atgatgggaa acacgaactc 3720
128 atggatgccg gtgaactggt ggcagagatt aacaaactgc ttcaagatgt ccgccagagc 3780
129 taggagattt tagcgaagca tttttgtttc catgtatatg gaaataggga acaacaacaa 3840
130 caacaaaaaa ccctgaaaga actggcattg ccaaatagtt gcatttatca taaatgtgtc 3900
131 tgtgtatatatt gaataataaa tactgtattt tcgtatgtac acaatgcaag tgtgattatt 3960
132 ttaatctgta ttttaaaaat acatttgtac cttatattta tgtgtaattt aacaaacaaa 4020
133 ttttattttt ttactcccat gacagacatg tttttcctag tcgtgtagaa actagccact 4080
134 gttcaaatct gatacactat tcaaccacaa agtgtaaagg cactgcttag attagttttg 4140
135 ttggggaaga attattatgt tgtatgaaca accccaactga agcattatac aattcttaaat 4200
136 tccattaagt gatcccaact tttttcaata acttttttaga aattaagaat cattaataat 4260
137 gttaagctat tttattgtta ttttctctac tttctactag cccaatagt tgaactctta 4320
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146 attcattttt agcttttgtc tccagtgcac gatctcatat ttttgctttt atttttagta 4860
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154 <211> LENGTH: 3405
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156 <213> ORGANISM: Homo sapiens
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160 ttcaaccacg atgtactggg caagaatttg aaatacagga tttatgagga acagaggggt 120
161 ggatcagtaa ttgcaagact atcagaggat gtggctgatg ttttattgaa gcttcctaat 180
162 ctttctactg ttcgatttct agccatgcag aggggaaatt ctctctact tgtagtaaac 240
163 gaggataatg gggaaatcag cataggggct acaattgacc gtgaacaact gtgccagaaa 300

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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/759,130B

TIME: 16:34:01

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

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164 aacttgaact gttccataga gtttgatgtg atcactctac ccacagagca tctgcagctt 360
165 ttccatattg aagttgaagt gctggatatt aatgacaatt ctccccagtt ttcaagatct 420
166 ctcatacctt ttgagatatc tgagagtgcg gcagttggga ctgcgattcc cctggacagt 480
167 gcatttgatc cagatgttgg ggaaaattcc ctccacacat actcgtcttc tgccaatgat 540
168 ttttttaata tgcaggttcg gaccaggact gatggagcca agtatgcaga actcatagt 600
169 gtcagagagt tagatcggga gctgaagtca agctacgagc ttcagctcac tgccctcagac 660
170 atgggagtag ctccagaggtc tggctcatcc atactaaaaa taagcatttc agactccaat 720
171 gacaacagcc ctgcttttga gcagcaatct tatataatac aactcttaga aaactccccg 780
172 gttggcactt tgctcttaga tctgaatgac acggatccag atgagggcgc taatgggaaa 840
173 attgtatatt ccttcagcag tcatgtgtct cccaaaatta tggagacttt taaaattgat 900
174 tctgaaagag gacatttgac tcttttcaag caagtggatt atgaaatcac caaatcctat 960
175 gagattgatg ttcagggtca agatttgggt ccaaattcaa tcccagccca ttgcaaaatt 1020
176 ataattaagg ttgtggatgt taatgacaat aaacctgaaa ttaacatcaa cctcatgtcc 1080
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178 ttggtcagag ttcaggacaa ggattctggg ctgaatggag aaatagtttg taagcttcat 1200
179 ggacatggtc acttttaaact tcagaagaca tatgaaaaca attatttaat cttaactaat 1260
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190 gtagcaggtg atgaggagaa tatcttcata attgatccac gatcatgtga catccatacc 1920
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193 gagtcggtga caagtacagc aatgacttca gtaagccagg catccttgga tgtctccatg 2100
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195 gcaactaggt gtaaccgcga gaagaaagac actagatcct ataactgcag ggtggccgaa 2220
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197 ttggtgccta ccataaatgg cactctgccc atcagatctc atcacagatc gtctccatct 2340
198 tcatctccta ccttagaaag agggcagatg ggcagccggc agagtcacaa cagtcaccag 2400
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200 ctaccccacg ccaactctgc tgttgagcag gtctctcagc ttctttcaat gcttcaccag 2520
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203 ggagacagtg attatgattt ggggcgagat tctccaatag ataggctgct ggtgaaagga 2700
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208 aagagttttt ccacctttgg aaaggactcc ccaaacgatg aggacactgg ggataccagc 3000
209 acatcatctc tgctctcgga aatgagcagt gtgttccagc gtctcttacc gccttccctg 3060
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211 cccttgccag ccaaaactgt ggggttacc aagggggtag cggcatgggc agccagtagc 3180
212 cattttcaaa atcccaccac caactgtggg ccgccaactg gaactcactc cagtgtgcag 3240

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RAW SEQUENCE LISTING

DATE: 09/26/2002

PATENT APPLICATION: US/09/759,130B

TIME: 16:34:01

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

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215 ctggtggcag agattaacaa actgcttcaa gatgtccgcc agagc 3405
217 <210> SEQ ID NO: 3
218 <211> LENGTH: 911
219 <212> TYPE: PRT
220 <213> ORGANISM: Homo sapiens
222 <400> SEQUENCE: 3
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225 Leu Ile Val Ser Phe Asn His Asp Val Leu Gly Lys Asn Leu Lys Tyr
226 20 25 30
227 Arg Ile Tyr Glu Glu Gln Arg Val Gly Ser Val Ile Ala Arg Leu Ser
228 35 40 45
229 Glu Asp Val Ala Asp Val Leu Leu Lys Leu Pro Asn Pro Ser Thr Val
230 50 55 60
231 Arg Phe Arg Ala Met Gln Arg Gly Asn Ser Pro Leu Leu Val Val Asn
232 65 70 75 80
233 Glu Asp Asn Gly Glu Ile Ser Ile Gly Ala Thr Ile Asp Arg Glu Gln
234 85 90 95
235 Thr Leu Pro Thr Glu His Leu Gln Leu Phe His Ile Glu Val Glu Val
236 100 105 110
237 Leu Asp Ile Asn Asp Asn Ser Pro Gln Phe Ser Arg Ser Leu Ile Pro
238 115 120 125
239 Ile Glu Ile Ser Glu Ser Ala Ala Val Gly Thr Arg Ile Pro Leu Asp
240 130 135 140
241 Ser Ala Phe Asp Pro Asp Val Gly Glu Asn Ser Leu His Thr Tyr Ser
242 145 150 155 160
243 Leu Ser Ala Asn Asp Phe Phe Asn Ile Glu Val Arg Thr Arg Thr Asp
244 165 170 175
245 Glu Leu Lys Ser Ser Tyr Glu Leu Gln Leu Thr Ala Ser Asp Met Gly
246 180 185 190
247 Val Pro Gln Arg Ser Gly Ser Ser Ile Leu Lys Ile Ser Ile Ser Asp
248 195 200 205
249 Ser Asn Asp Asn Ser Pro Ala Phe Glu Gln Gln Ser Tyr Ile Ile Gln
250 210 215 220
251 Leu Leu Glu Asn Ser Pro Val Gly Thr Leu Leu Leu Asp Leu Asn Ala
252 225 230 235 240
253 Thr Asp Pro Asp Glu Gly Ala Asn Gly Lys Ile Val Tyr Ser Phe Ser
254 245 250 255
255 Ser His Val Ser Pro Lys Ile Met Glu Thr Phe Lys Ile Asp Ser Glu
256 260 265 270
257 Lys Ser Tyr Glu Ile Asp Val Gln Ala Gln Asp Leu Gly Pro Asn Ser
258 275 280 285
259 Ile Pro Ala His Cys Lys Ile Ile Lys Val Val Asp Val Asn Asp
260 290 295 300
261 Asn Lys Pro Glu Ile Asn Ile Asn Leu Met Ser Pro Gly Lys Glu Glu
262 305 310 315 320
263 Ile Ser Tyr Ile Phe Glu Gly Asp Pro Ile Asp Thr Phe Val Ala Leu

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/26/2002
PATENT APPLICATION: US/09/759,130B TIME: 16:34:02

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\09262002\I759130B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:81; N Pos. 3515,3574
Seq#:91; N Pos. 3462,3521
Seq#:96; N Pos. 3429,3488
Seq#:101; N Pos. 3376,3435
Seq#:106; N Pos. 3369,3428
Seq#:111; N Pos. 3316,3375
Seq#:324; N Pos. 14
Seq#:343; N Pos. 3043,3048
Seq#:450; Xaa Pos. 1,2,3,4,5,7,10,11
Seq#:451; Xaa Pos. 1,2,3,4,6,7,8,9,10,11,12,13,14,15,16
Seq#:452; Xaa Pos. 1,2,3,6,7,9,10
Seq#:453; Xaa Pos. 4,5,7,8
Seq#:454; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,18,20,21,22,23,24,25
Seq#:454; Xaa Pos. 26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:455; Xaa Pos. 1,6
Seq#:456; Xaa Pos. 2,3,4,5,6,8,9,11,12,13,14,15,16,19,20,22,23,24,25,26,27
Seq#:456; Xaa Pos. 28,29,30,31,32,33,35,36,37
Seq#:457; Xaa Pos. 1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:457; Xaa Pos. 23,24,25

VERIFICATION SUMMARY

DATE: 09/26/2002

PATENT APPLICATION: US/09/759,130B

TIME: 16:34:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:671 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (9) SEQUENCE:
L:679 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE:
L:687 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11) SEQUENCE:
L:695 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (12) SEQUENCE:
L:703 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (13) SEQUENCE:
L:711 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (14) SEQUENCE:
L:719 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (15) SEQUENCE:
L:727 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (16) SEQUENCE:
L:735 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (17) SEQUENCE:
L:743 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (18) SEQUENCE:
L:751 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (19) SEQUENCE:
L:759 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (20) SEQUENCE:
L:767 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (21) SEQUENCE:
L:775 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (22) SEQUENCE:
L:783 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (23) SEQUENCE:
L:791 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (24) SEQUENCE:
L:799 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (25) SEQUENCE:
L:807 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (26) SEQUENCE:
L:815 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (27) SEQUENCE:
L:823 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (28) SEQUENCE:
L:831 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (29) SEQUENCE:
L:839 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (30) SEQUENCE:
L:1154 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (34) SEQUENCE:
L:1310 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (36) SEQUENCE:
L:1318 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (37) SEQUENCE:
L:1372 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (39) SEQUENCE:
L:1643 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (43) SEQUENCE:
L:1651 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (44) SEQUENCE:
L:1659 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (45) SEQUENCE:
L:1667 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (46) SEQUENCE:
L:1675 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (47) SEQUENCE:
L:1683 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (48) SEQUENCE:
L:1691 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (49) SEQUENCE:
L:1699 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (50) SEQUENCE:
L:2036 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (62) SEQUENCE:
L:2044 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (63) SEQUENCE:
L:2052 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (64) SEQUENCE:
L:2060 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (65) SEQUENCE:
L:2068 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (66) SEQUENCE:
L:2076 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (67) SEQUENCE:
L:2084 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (68) SEQUENCE:
L:2092 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (69) SEQUENCE:
L:2100 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (70) SEQUENCE:
L:2536 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (79) SEQUENCE:
L:2544 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (80) SEQUENCE:
L:2615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:3480
L:2616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:3540

VERIFICATION SUMMARY

DATE: 09/26/2002

PATENT APPLICATION: US/09/759,130B

TIME: 16:34:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09262002\I759130B.raw

L:2755 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (87) SEQUENCE:
L:2795 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (89) SEQUENCE:
L:2803 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (90) SEQUENCE:
L:2873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:3420
L:2874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:3480
L:3040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:3420
L:3041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:3480
L:3202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:3360
L:3203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:3420
L:3359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:3360
L:3360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:3420
L:3515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:3300
L:3516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:3360
L:3606 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (116) SEQUENCE:
L:3614 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (117) SEQUENCE:
L:8304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324 after pos.:0
L:9358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:343 after pos.:3000
L:13728 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13732 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13736 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13740 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13745 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13749 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13753 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13757 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:450
L:13758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:450 after pos.:0
L:13770 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13775 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13779 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13784 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13788 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13792 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13796 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13800 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13804 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13808 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13812 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:451
L:13813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451 after pos.:0
L:13825 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13829 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:452
L:13833 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:452
L:13837 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:452
L:13841 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:452
L:13845 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:452
L:13850 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:452
L:13851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:452 after pos.:0
L:13863 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13867 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:453
L:13871 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:453

VERIFICATION SUMMARY

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PATENT APPLICATION: US/09/759,130B

TIME: 16:34:02

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L:13875 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:453
L:13879 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:453
L:13883 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:453
L:13884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:453 after pos.:0
L:13896 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13901 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13906 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13910 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13915 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13919 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13923 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13927 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13932 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13936 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:454
L:13937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454 after pos.:0
L:13939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454 after pos.:16
L:13941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454 after pos.:32
L:13953 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13957 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:455
L:13961 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:455
L:13965 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:455
L:13966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:455 after pos.:0
L:13978 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:13983 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:13987 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:13992 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:13996 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:14001 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:14005 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:14010 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:14015 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:456
L:14016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456 after pos.:0
L:14018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456 after pos.:16
L:14020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456 after pos.:32
L:14032 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:14037 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:457
L:14041 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:457
L:14074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:457 after pos.:0
L:14076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:457 after pos.:16